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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/770,476	02/04/2004	Stephen Roux	1857.0770001	1910	
26111 75	590 07/12/2004		EXAMINER		
STERNE, KESSLER, GOLDSTEIN & FOX PLLC			HUGHES,	HUGHES, JAMES P	
1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER	
WISHINGTO	11, DC 20003		2881		
			DATE MAILED: 07/12/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

/	Application No.	Applicant(s)				
	10/770,476	ROUX, STEPHEN				
Office Action Summary	Examiner	Art Unit				
•	James P. Hughes	2881				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 04 F€	ebruary 2004.					
2a) This action is <b>FINAL</b> . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-16</u> is/are rejected.						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate				
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date <u>020404</u>.</li> </ol>	5)  Notice of Informal F 6) Other:	Patent Application (PTO-152)				
5. Patent and Trademark Office	,					

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### **DETAILED ACTION**

## Claim Objections

1. Claims 1 and 9 are objected to because of the following informalities. Claims 1 and 9 recite a limitation of "the first gas and the second gas to *isolated* the first gas from the second gas" [emphasis added] (lines 5-6 of each claim). Perhaps the word "isolated" in each claim should be replaced with – isolate –. Appropriate correction is required.

# Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-16 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-18 of copending Application No. 10/300,898, which was previously allowed. While this patent has not yet been published, the issue fee was paid on January 6, 2004. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims of the instant application are obviously anticipated by the claims of the 10/300,898 application. Both

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applications disclose a multi-chambered lithography system including a gas recycling means. For example, claims 1 and 9 of the instant invention substantially claim the same invention as claims 1 combined with 5, and 10 combined with 14, respectively, of the 10/300,898 application. The instant invention's recitations in claims 1 and 9 of "a first portion" (line2) and "a second portion" (line 3) are obvious semantic changes to the recited limitations of claims 1 combined with 5, and 10 combined with 14, in the 10/300,898 application of "a first chamber" (line 2 from claim 1) and "a second chamber" (line 3 from claim 1). Claims 1 and 9 of the instant invention recite the limitation of the invention's use in a lithography tool (e.g., line 3 of claim 1). While claims 1 combined with 5, and 10 combined with 14 of the 10/300,898 application do not recite an applicability in a lithography tool, it would have been obvious to one of ordinary skill in the art that the time of the invention that claims 1 combined with 5, and 10 combined with 14 in the 10/300,898 application could be used in a lithography tool. One of ordinary skill in the art at the time of the invention would have been motivated to do so because the invention represented by claims 1 combined with 5, and 10 combined with 14 would provide an efficient means for recycling gases used in a lithography tool.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

#### Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Gutowski et al. (6,133,577) teaches a method and apparatus comprising a diffuser which captures a gas and recycles it such that the gas repeatedly flows from the nozzle and is

repeatedly stimulated to provide EUV light. Additionally, means for recycling gas from the vacuum chamber by the vacuum pump is taught. (See e.g., Col. 4, Il. 15-25) Silfvast et al. (6,188,076) teaches a lithography system wherein a gas recycling system is employed. (See e.g., Col. 11, Il. 20-40 and Fig. 3B) Hayashi (2001/0055101) teaches a lithography device and method comprising a gas an system that collects the gas exhausted from the optical system and supplies the gas to the mask chamber. (Abstract) Hayashi (6,559,922) teaches an apparatus and method for providing a purged optical path between an optical source surface and a target. (Abstract)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James P. Hughes whose telephone number is 571-272-2474. The examiner can normally be reached on Monday - Friday 9am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Lee can be reached on 571-272-2477. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James P. Hughes
Patent Examiner
Art Unit 2881

NIKITA WELLS
PRIMARY EXAMINER 06/04/04